Exploring Aeronautics							
2002 Science							
Priority Academic Student Skills							
Oklahoma Science							
Grade 5	Ctata	Standards					
Activity/Lesson	State	Standards					
Fundamentals of			Make predictions based on patterns in				
Aeronautics (145-176)	OK	SCI.5.A.4.3	experimental data.				
			Share results of an investigation in sufficient				
Fundamentals of			detail so that data may be combined with data				
Aeronautics (145-176)	OK	SCI.5.A.5.4	from other students and analyzed further.				
Wings(177-208)	OK	SCI.5.A.3.2	Evaluate the design of a scientific investigation.				
Airplane Control(209-							
256)	OK	SCI.5.A.3.2	Evaluate the design of a scientific investigation.				
			Use different ways to investigate questions and				
Science of Flight	OK	SCI.5.A.5.1	evaluate the fairness of the test.				
J -		-	Formulate a general statement to represent the				
Science of Flight	OK	SCI.5.A.5.3	data.				
Intro to Aeronautics							
(109-123)	OK	SCI.5.A.3.2	Evaluate the design of a scientific investigation.				
Intro to Aeronautics			Make predictions based on patterns in				
(109-123)	ОК	SCI.5.A.4.3	experimental data.				
(100 120)		001.03 (110	Share results of an investigation in sufficient				
Intro to Aeronautics			detail so that data may be combined with data				
(109-123)	ОК	SCI.5.A.5.4	from other students and analyzed further.				
Scientific Method(124-		001.0.7 (.0.4	Ask questions about the world and formulate an				
144)	ОК	SCI.5.A.3.1	orderly plan to investigate a question.				
Scientific Method(124-		001.0.7.0.1	orderly plan to investigate a question.				
144)	ок	SCI.5.A.3.2	Evaluate the design of a scientific investigation.				
Scientific Method(124-		301.3.A.3.2	Evaluate the design of a scientific investigation.				
144)	ОК	SCI.5.A.3.3	Design and conduct a scientific investigation.				
Scientific Method(124-	OIC	001.0.7.0.0	Make predictions based on patterns in				
144)	ок	SCI.5.A.4.3	experimental data.				
177)	OIC	301.3.A. 4 .3	experimental data.				
		Exploring Aero	nautics				
		2002 Scier					
		Priority Academic S	tudent Skills				
Oklahoma Science							
Grade 6	04-4-	04					
Activity/Lesson	State	Standards					
			Identify qualitative and/or quantitative changes				
_ , , ,			given conditions (e.g., temperature, mass,				
Fundamentals of		001011	volume, time, position, length) before, during,				
Aeronautics (145-176)	UK	SCI.6.A.1.1	and after an event.				
Fundamentals of			Report data in an appropriate method when				
Aeronautics (145-176)	OK	SCI.6.A.4.1	given an experimental procedure or data.				
5.5.1.6.6.100 (170 170)	J.,	JOI.J. J. T. I	The mass of an object is not altered due to				
How an Airplane Flies	ОК	SCI.6.B.1.2	changes in shape.				
Intro to Aeronautics		JOI.U.D. 1.2	Report data in an appropriate method when				
(109-123)	ОК	SCI.6.A.4.1	given an experimental procedure or data.				
(100-120)	JOIN .	UUI.U.A.4. I	given an experimental procedure of data.				

Intro to Aeronautics			Use technology to gather data and analyze
	ок	CCLG A F 2	
(109-123)	UK	SCI.6.A.5.2	results of investigations.
Scientific Method(124-	OIC	0010 4 4 4	Report data in an appropriate method when
144)	OK	SCI.6.A.4.1	given an experimental procedure or data.
Scientific Method(124-			Accept or reject hypotheses when given results
144)	OK	SCI.6.A.4.4	of an investigation.
Scientific Method(124-			Use technology to gather data and analyze
144)	OK	SCI.6.A.5.2	results of investigations.
Scientific Method(124-			Review data, summarize data, and form logical
144)	OK	SCI.6.A.5.3	conclusions.
	E	Exploring Aerona	
		2002 Science	
	Priori	ty Academic Stu	dent Skills
Oklahoma Science			
Grade 7			
Activity/Lesson	State	Standards	
			Identify qualitative and/or quantitative changes
			given conditions (e.g., temperature, mass,
Fundamentals of			volume, time, position, length) before, during,
Aeronautics (145-176)	OK	SCI.7.A.1.1	and after an event.
71010110101100 (1110 1110)			
Fundamentals of			
Aeronautics (145-176)	OK	SCI.7.A.3.4	Identify a testable hypothesis for an experiment.
Actoriadics (143-170)	OK	001.7.A.3. 4	identity a testable hypothesis for an experiment.
Fundamentals of			Report data in an appropriate method when
	OK	SCI.7.A.4.1	
Aeronautics (145-176)	UK	301.7.A.4.1	given an experimental procedure or data.
Colones of Flight	OK	CCL 7 A 2 4	Identify a tastable by mathecia for an averagement
Science of Flight	OK	SCI.7.A.3.4	Identify a testable hypothesis for an experiment.
Online of Flinks	OIC	001744	Accept or reject hypotheses when given results
Science of Flight	OK	SCI.7.A.4.4	of an investigation.
			Use systematic observations, make accurate
			measurements, and identify and control
Science of Flight	OK	SCI.7.A.5.1	variables.
			Use appropriate tools (e.g., metric ruler,
			graduated cylinder, thermometer, balances,
Integrating with			spring scales, stopwatches) when measuring
Aeronautics	OK	SCI.7.A.1.2	objects, organisms, and/or events.
			Use systematic observations, make accurate
Integrating with			measurements, and identify and control
Aeronautics	OK	SCI.7.A.5.1	variables.
			Matter has physical properties that can be
			measured (i.e., mass, volume, temperature,
			color, texture, and density). Physical changes of
			a substance do not alter the chemical nature of
Integrating with			a substance (e.g., phase changes of water
Aeronautics	OK	SCI.7.B.1.1	and/or sanding wood).
Intro to Aeronautics			Interpret data tables, line, bar, trend, and/or
(109-123)	OK	SCI.7.A.4.2	circle graphs.
Intro to Aeronautics			Use technology to gather data and analyze
(109-123)	ок	SCI.7.A.5.2	results of investigations.
Scientific Method(124-		55111111012	Ask questions about the world and design
144)	ок	SCI.7.A.3.1	investigations that lead to scientific inquiry.
17-T <i>)</i>		JOOI.1 .A.O. I	introdugations that lead to solentine inquiry.

Scientific Method(124-								
144)	ОК	SCI.7.A.3.2	Evaluate the design of a scientific investigation.					
Scientific Method(124-		001111111012	Report data in an appropriate method when					
144)	OK	SCI.7.A.4.1	given an experimental procedure or data.					
Scientific Method(124-			Interpret data tables, line, bar, trend, and/or					
144)	OK	SCI.7.A.4.2	circle graphs.					
Scientific Method(124-			Accept or reject hypotheses when given results					
144)	OK	SCI.7.A.4.4	of an investigation.					
,			3					
		Exploring Aeron	nautics					
2002 Science								
	Prio	rity Academic Stu	udent Skills					
Oklahoma Science								
Grade 8	04-4-	04						
Activity/Lesson	State	Standards						
			Identify qualitative and/or quantitative changes					
Fundamentals of			given conditions (e.g., temperature, mass,					
Fundamentals of	OK	CCI 0 A 1 1	volume, time, position, length) before, during, and after an event.					
Aeronautics (145-176)	UK	SCI.8.A.1.1	and after an event.					
Fundamentals of			Report data in an appropriate method when					
Aeronautics (145-176)	OK	SCI.8.A.4.1	given an experimental procedure or data.					
Acionautics (145-170)	OK	301.0.A. 4 .1	The motion of an object can be measured. The					
Fundamentals of			position of an object, its speed and direction can					
Aeronautics (145-176)	OK	SCI.8.B.2.1	be represented on a graph.					
7101144105 (140 170)	OI C	OO1.0.D.Z. 1	be represented on a graph.					
			An object that is not being subjected to a net					
Fundamentals of			force will continue to move at a constant velocity					
Aeronautics (145-176)	ОК	SCI.8.B.2.2	(in a straight line and a constant speed).					
(**************************************			(m a cu ang ruma a cu a					
			An object that is not being subjected to a net					
Airplane Control(209-			force will continue to move at a constant velocity					
256)	OK	SCI.8.B.2.2	(in a straight line and a constant speed).					
			An object that is not being subjected to a net					
			force will continue to move at a constant velocity					
How an Airplane Flies	OK	SCI.8.B.2.2	(in a straight line and a constant speed).					
			Use technology to gather data and analyze					
Science of Flight	OK	SCI.8.A.5.2	results of investigations.					
			An abiant that is mat basis and it is a set of the set					
			An object that is not being subjected to a net					
Colones of Flight	OK	CCI O D O O	force will continue to move at a constant velocity					
Science of Flight	OK	SCI.8.B.2.2	(in a straight line and a constant speed).					
Intograting with			Use systematic observations, make accurate					
Integrating with Aeronautics	OK	SCI.8.A.5.1	measurements, and identify and control variables.					
ACIONAULICS		301.0.A.3. I	The motion of an object can be measured. The					
Integrating with			position of an object, its speed and direction can					
Integrating with Aeronautics	OK	SCI.8.B.2.1	be represented on a graph.					
ACIONAULICS	OIX.	JOI.O.D.Z. I	be represented on a graph.					
			An object that is not being subjected to a net					
Integrating with			force will continue to move at a constant velocity					
Aeronautics	ок	SCI.8.B.2.2	(in a straight line and a constant speed).					
		CCC.D.Z.Z	in a straight into and a constant opeca).					

Intro to Aeronautics			Use technology to gather data and analyze
(109-123)	OK	SCI.8.A.5.2	results of investigations.
			An object that is not being subjected to a net
Intro to Aeronautics			force will continue to move at a constant velocity
(109-123)	OK	SCI.8.B.2.2	(in a straight line and a constant speed).
Scientific Method(124-			Ask questions about the world and design
144)	OK	SCI.8.A.3.1	investigations that lead to scientific inquiry.
Scientific Method(124-			Report data in an appropriate method when
144)	OK	SCI.8.A.4.1	given an experimental procedure or data.
Scientific Method(124-			Accept or reject hypotheses when given results
144)	OK	SCI.8.A.4.4	of an investigation.
Scientific Method(124-			Use technology to gather data and analyze
144)	OK	SCI.8.A.5.2	results of investigations.